

Business Analysis in Practice: Testing and Quality Assurance for Software Professionals

(BA202T, 4 jours)

Description

The SETC Certified Testing and Quality Assurance course focuses on industry best practices in the area of iterative software testing and quality assurance. Beginning with a general discussion of testing types and bug types, the course proceeds to investigate the concepts of functional requirements, test plans and test cases as they are applied within the context of iterative software development projects. The course also includes discussions on test automation, test driven development and quality assurance amongst others.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Testing

Testing Basics

Static Testing

Boundary Value Testing

Decision Table Testing

Garbage Data

State Testing

Other Forms of Testing

Applicable Standards

Bugs and Defects

Infamous Software Bugs

What is a Bug?

Types of Defects

Common Software Errors

Software Defects: Cause and Effect

Documenting and Reporting Bugs

Test Case Formats

Problem Solving

Functional and Non-Functional Specifications

Functional Specifications

Requirements Specification

Use Cases

Use Case Diagrams

Use Case Formats

Writing Test Cases

The Supplementary Specification

Development Methodology

Choosing a Methodology

The Unified Process

The Inception Phase

The Elaboration Phase

The Construction Phase

The Transition Phase

The MSF for Agile Software Development

Test Plans, Test Cases and Bugs

A Traceability Strategy for the Organization

The Test Plan and Test Cases

Testing Documentation

The Master Plan

Components of a Master Test Plan

The Test Design Specification

Writing Test Cases

Test Metrics

About Defects

Reporting Bugs

Quality Assurance

The Quality Assurance Process

Step 1: Vision and Mission Statement

Step 2: Document Processes

Step 3: Establishing Measurements

Step 4: Control Processes using Measurements

Step 5: Implementing Continuous Improvement

Managing Changes

Types of Changes

Conducting a Change Meeting

Managing Change Requests

Implementing a Change Management Process

Other Testing Types

Objectives and Limits of Testing

Functional Testing versus Regression Testing

Acceptance Testing

Configuration Testing

Compatibility Testing

Testing Multi-Lingual Systems

Usability Testing

Website Testing

COTS Testing (Commercial Off The Shelf Applications)

Testing for Security

Threats and Attacks

Security Flaws and Exploits

Threat Modelling

Threat Modeling using Business Activity Diagrams

Computer Forensics

Antivirus Products, Firewalls and Sniffers

The Tools of the Trade

Testing Tools

Functional Testing: JUnit

Code Coverage

Test Plan – RUP Template

Test Plan Outline

Test-Driven Development

Overview

Simple Test-First Programming (TFP) Example

TFP Cycle for the First Test

TFP Cycle for the Second Test

Review

Moving Forward with Test-First Programming

Putting it all Together – A Complete Testing Lab
